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U.S. DEPARTMENT OF AGRICULTURE

Annual Seed List

Prepared by the

Minnesota Crop Improvement Association 1921



A Seed List Containing

Seed Inspected and Certified by the Association.

Seed reported for sale by Members of the Association.

Seed reported for sale by other farmers of the State.

Seed offered for sale by the Experiment Station
and Substations.

Also a list of Commercial Seed Houses and others who
buy and sell seeds.

Compiled by
T. E. Odland, Secretary,
University Farm,
St. Paul, Minn.

Annual Seed List

This seed list has been prepared by the Minnesota Crop Improvement Association. It contains names of growers who have seed for sale inspected by a representative of the Association; members of the Association who have reported seed for sale; and also names of other growers in the state reporting that they have good pure seed. We have on file samples of seed which have been inspected and certified.

WRITE TO GROWERS FOR SAMPLES AND PRICES

Buy on sample only. See that the germination and purity of the seed is marked on the tags. This is required by law.

A field must be inspected sometime before harvest and the seed again after it is ready for sale in order to qualify as **Certified** seed. The field and seed must come up to the standards of the Association for purity, quality, and freedom from weeds before a certificate is issued. Where the final bin inspection has not been made but the field passed inspection, the seed is listed as **Field Inspected**. Seed which has passed the field and bin inspection and has come from the experiment station within the last two years is classed as **Registered**. This stands for the highest degree of purity.

RECOMMENDED VARIETIES

The Experiment Station is recommending the following grain varieties to farmers of the state. These recommendations are based on the record made in many different variety tests carried on in different localities in the state.

Common Spring Wheat—Marquis.

Durum Wheat—Mindum, Minn. No. 470.

Barley—Improved Manchuria, Minn. No. 184.

Oats—Medium early varieties for Central and Northern Minn. Victory, No. 514; Minota, Minn. No. 512; Improved Ligowa, Minn. No. 281. Early varieties for southern Minn.—Iowa No. 103.

Soybeans—Chestnut, Minsoy, and Wisconsin Black. For Southern Minnesota also Elton and Habaro.

Flax—N. D. No. 52 and 114.

Marquis wheat was hard hit by rust last year but it is recommended for general planting because of its high milling value and a good yielder when there is not much rust. **D.5** is a red durum originated in North Dakota. It is not recommended on account of its low milling value. **Kubanka**, **D-1**, and **Acme** are all amber durums of good quality and recommended when Mindum is not available. **Ruby** is a new early wheat originated in Canada. It is from four to seven days earlier than marquis and has a high milling quality. It did not yield as well as marquis at any of the sub-stations where tried the past year. **Kitchener** is a fife wheat similar to marquis. **Reb Bobs** is also a Canadian product. It did not do as well as marquis where tried this year. **Kota** is a new rust resistant wheat developed by the North Dakota station. Very little seed is available at present.

The North Dakota Flax varieties are recommended because they are the most resistant to wilt of any of which there is any amount of seed available. Flax seems to lose its resistance to wilt when grown on wilt-free soil for some years so that these varieties cannot always be depended on as being wilt resistant. Two new wilt resistant flax varieties are now being increased at University Farm and at the Crookston Station. The secretary would like to get in touch with anyone who has had difficulty with flax wilt and who would like to grow increase fields of these varieties. Only a small amount is available this year but next year there will be enough seed for a number of small fields.

Iowar is a new early oat variety highly recommended by the Iowa station. It made a very good record in tests this year* at the different stations. A new Minnesota selection of Sixty Oats, **Minn. No. 674**, looks especially promising. There is no seed available for distribution this year.

Minsturdi, Minn. No. 439, is a new selection of six-row barley which looks very promising. It is especially suited to rich soil where a good stiff straw is desired. Only about 100 bushels are available for distribution this year.

Minsoy is the earliest of the soybean varieties. It is a good seed producer and is best suited for raising for seed. It is too short for growing with corn for silage.

SEED POINTERS

The Association calls your attention to the following suggestions:
First—Grow only standard varieties and secure neighborhood effort to establish the one (possibly two) best adapted to the local conditions.

Second—Select all seed by means of fanning or grading to secure uniformity of size and weight and free from foul seed.

Third—Treat grains with formaldehyde to prevent smuts and wilt.

Fourth—Test for an exact showing of vitality or germination power.

Fifth—Buy all seeds on sample. Know what you are getting before the order is placed. Buy only the best grades.

Sixth—Those who may be in doubt as to the best varieties to grow should write the Experiment Station, University Farm, St. Paul, Minn., or the Secretary.

WHAT THE ASSOCIATION IS DOING

1. Inspecting and certifying seeds of standard farm crops.
2. Keeping records of registered seeds.
3. Publishing seed lists in order to bring grower and buyer of seeds together.
4. Publishing annual reports of meetings, shows and work accomplished.
5. Interesting people in the production and use of better seed crops.
6. Organizing local crop improvement interests as County Branches.
7. Holding annually a seed fair and meeting for educational purposes.
8. Standardizing varieties of farm crops and improving their adaptation to localities.
9. Helping to establish a reputation for our state as the best source of good seed.
10. Helping to make Minnesota more productive, more prosperous, and better known.

You are invited to become a member—the annual fee is only one dollar.

TO GROWERS HAVING SEED LISTED

If you want to build up a reputation for having good, dependable seed that a buyer will keep in mind for next year and also tell his neighbors about, please consider the following carefully.

1. Give every inquiry **prompt** attention. Acknowledge an order at once. If your supply is gone and you know where he can obtain the seed, refer him to this party. Keep a supply of postal cards on hand so you can notify your party promptly.

2. **Notify** the **Secretary** when your supply is gone.

3. Send out only good, **clean** seed.

4. See that the germination and purity tests are marked on the tag.

5. Notify the buyer when the seed is shipped.

SEED LIST

ALFALFA

Name and Town	County	Amount for Sale	Remarks
GRIMM			
C. R. Billings, Audubon.....	Becker	25 bu.	Certified
Ole Skinnemoen, Wendell	Grant	15 bu.	
Nils Skinnemoen, Wendell.....	Grant	3 bu.	Certified
E. G. Enestvedt, Sacred Heart.....	Renville		
KOSSACK			
J. H. Nixon, Nevis.....	Hubbard	1 bu.	

BARLEY

MINNESOTA NO. 184			
Henry Klenke, Clara City.....	Chippewa	400 bu.	Registered
S. Dillman, Long Lake.....	Hennepin	100 bu.	
H. H. Kalmoe, Montevideo.....	Lac Qui Parle	700 bu.	Registered
School Demonstration Farm, Little Swan.....	St. Louis	50 bu.	
Wm. Kueker, Faribault	Rice	420 bu.	Registered
E. J. Volden, Morris.....	Stevens	600 bu.	
Chas. Wolfe, Kellogg.....	Wabasha	400 bu.	Registered
Alfred S. Merrill, 323 2d Ave. N., Minneapolis....		550 bu.	Certified
Finley Bros., Bushnell, S. D.		70 bu.	
MINNESOTA NO. 105			
C. A. Johnson, Ogilvie.....	Kanabec	50 bu.	
Arthur Norum, Hallock.....	Kittson	250 bu.	Certified
M. H. Crane, Chatfield.....	Olmstead	100 bu.	Certified
C. J. Manahan, Chatfield.....	Olmstead	200 bu.	Certified
Fred Howle, Nerstrand	Rice	400 bu.	
Chas. Lien, St. Cloud.....	Stearns	50 bu.	
Underwood Farms, Lake City.....	Wabasha	250 bu.	Certified
ODERBRUCKER			
John A. Nelson, Maynard.....	Chippewa	200 bu.	
Stensrud Bros., Watson.....	Chippewa	750 bu.	
O. P. Hanson, Grygla	Marshall	90 bu.	
Andrew Anderson, Fergus Falls.....	Ottertail	300 bu.	Field Inspected
Wm. J. Van Dyke, Bertha.....	Todd	20 bu.	Field Inspected

MISCELLANEOUS

F. E. Lindsley, Garvin.....	Murray	400 bu.	Six Row
Louis Johnson & Sons, Fergus Falls....	Ottertail	300 bu.	Blue Ribbon
Underwood Farms, Lake City.....	Wabasha	300 bu.	Wisc. Pedigreed

CLOVER

MAMMOTH			
J. H. Peterson, Fort Ripley.....	Crow Wing	125 bu.	
Burpu Swewll, Brainerd.....	Crow Wing	330 bu.	
Nils Skinnemoen, Wendell.....	Grant	3 bu.	Certified
J. H. Nixon, Nevis.....	Hubbard	10 bu.	
T. J. Lillevoid, Grygla.....	Marshall	100 bu.	
B. A. Passe, Wabasha.....	Wabasha	15 bu.	
John Ramer, Wabasha.....	Wabasha	15 bu.	
ALSIKE			
J. H. Peterson, Fort Ripley.....	Crow Wing	75 bu.	
Burpu Swewll, Brainerd.....	Crow Wing	130 bu.	
J. H. Nixon, Nevis.....	Hubbard	8 bu.	
Roy Smith, Parkers Prairie.....	Ottertail	10 bu.	
John Ramer, Wabasha.....	Wabasha	20 bu.	
B. A. Passe, Wabasha.....	Wabasha	25 bu.	

Name and Town	County	Amount for Sale	Remarks
MEDIUM			
W. C. Hicks, Cedar.....	Anoka		
H. L. Arnold, Bemidji.....	Beltrami	25 bu.	
Carl Opsata, Bemidji.....	Beltrami	5 bu.	Field Inspected
D. Dvoracheck, County Agent, Bemidji.....	Beltrami	Med. red	& alsike in quantity
J. H. Peterson, Fort Ripley.....	Crow Wing	75 bu.	
E. H. Martin, Co. Agt., Bagley.....	Clearwater	Med. red	& alsike in quantity
E. G. Roth, Co. Agt., Brainerd.....	Crow Wing	Med. red	& alsike in quantity
J. J. Quiring, Mt. Lake.....	Cottonwood	30 bu.	
Fred Schumacher, Spring Valley.....	Fillmore	15 bu.	
Nils Skinnemoen, Wendell.....	Grant	8 bu.	
B. L. Vanderhagen, Maple Plain.....	Hennepin	10 bu.	
M. M. Abbot, Co. Agt., International Falls.....	Koochiching	Med. red	and alsike
W. V. Longley, Co. Agt., Hallock.....	Kittson	Quantity	
Roy Smith, Parkers Prairie.....	Ottertail	15 bu.	
F. S. Idtse, Co. Agt., Hinckley.....	Pine	Quantity	
Chas. Lien, St. Cloud.....	Stearns	5 bu.	
John Ramer, Wabasha.....	Wabasha	8 bu.	
WHITE BLOSSOM SWEET			
J. P. Rodange, Jordan.....	Scott	150 bu.	
F. H. Hilgers, Barnesville.....	Clay	13 bu.	

CORN

MINNESOTA NO. 13

Hans Lilleoden, Hanska.....	Brown	10 bu.	Certified
A. J. Douglas, Clinton.....	Big Stone	6 bu.	
A. A. Riedesel, Windom.....	Cottonwood	80 bu.	Certified
A. P. Nelson, Maynard.....	Chippewa	50 bu.	Certified
Peter Nelson, Montevideo.....	Chippewa	10 bu.	Certified
Solomon Franz, Mountain Lake.....	Cottonwood	50 bu.	Certified
Mrs. J. C. Andreson, Granite Falls....	Chippewa	75 bu.	Field Inspected
C. F. Nelson, Randolph.....	Dakota	25 bu.	Certified
Wm. Byrne, Farmington.....	Dakota	350 bu.	Certified
Carey Bros., Rosemount.....	Dakota	20 bu.	Certified
Hagen & Covington, Lakeville.....	Dakota	40 bu.	Certified
H. P. Hanson, Albert Lea.....	Freeborn	100 bu.	Certified
Fred Schumacher, Spring Valley.....	Fillmore	350 bu.	Certified
J. D. Fenstermacher, Spring Valley.....	Fillmore	80 bu.	Certified
J. H. Nixon, Nevis.....	Hubbard	10 bu.	
H. H. Kalmoe, Montevideo.....	Lac Qui Parle	100 bu.	Certified
Albert P. Anderson, Dassel.....	Meeker	500 bu.	Certified
Peter Peterson, Dassel.....	Meeker	140 bu.	Certified
Henry Meinhard, Sherburn.....	Martin	200 bu.	Certified
I. J. Clinton, Watkins.....	Meeker	20 bu.	Certified
Alfred Anderson, Dassel.....	Meeker	75 bu.	
E. G. Enstvedt, Sacred Heart.....	Renville	1500 bu.	Certified
S. O. Mason, Redwood Falls.....	Redwood	150 bu.	
A. A. Chapman, Olivia.....	Renville	350 bu.	Certified
F. W. Richardson, Northfield.....	Rice	30 bu.	Certified
Thos. Hosken, No. Redwood.....	Redwood	80 bu.	Certified
Chas. Lien, St. Cloud.....	Stearns	10 bu.	
A. G. Bork, Paynesville.....	Stearns	12 bu.	Certified
John F. Peterson, Wadena.....	Todd	400 bu.	Certified
W. B. Erickson, Hager City, Wisconsin.....		100 bu.	
Harvey Visser, Forestburg, South Dakota.....		80 bu.	

SILVER KING

A. D. Stanford, Mankato.....	Blue Earth	10 bu.	Certified
E. O. Hoberg, Montevideo.....	Chippewa	300 bu.	
H. P. Hanson, Albert Lea.....	Freeborn	20 bu.	Certified
F. Schumacher, Spring Valley.....	Fillmore	100 bu.	Certified
John Rasmussen, Hartland.....	Freeborn	45 bu.	
G. A. Radke, Tracy.....	Lyon	100 bu.	Certified
L. E. Zimmerman, Tracy.....	Lyon	40 bu.	Certified
C. A. Lau, Tracy.....	Lyon	350 bu.	Certified
C. L. Blanchard, Sherburn.....	Martin	125 bu.	Certified
Henry Meinhard, Sherburn.....	Martin	200 bu.	Certified
Teeter & Collins, Granada.....	Martin	300 bu.	Certified
Floyd E. Lindsley, Garvin.....	Murray	150 bu.	Certified
Ludlow Greenhouses, Worthington.....	Nobles	75 bu.	
Thomas Hosken, North Redwood.....	Redwood	75 bu.	Certified
Iver Barnaal, Sacred Heart.....	Renville	100 bu.	Certified
S. O. Mason, Redwood Falls.....	Redwood	150 bu.	
Henry J. Jensen, Blooming Prairie.....	Steele	2 bu.	

Name and Town	County	Amount for Sale	Remarks
MURDOCK			
E. J. Stennes, Montevideo.....	Chippewa	30 bu.	Certified
Fred Handeen, Montevideo.....	Chippewa		Certified
John W. Evans, Montevideo.....	Chippewa	10 bu.	Certified
J. D. Fenstermacher, Spring Valley.....	Fillmore	135 bu.	Certified
John Rasmussen, Hartland.....	Freeborn	20 bu.	Certified
Ernest Dehn, Waterville.....	Le Sueur	150 bu.	Certified
F. Schumacher, Spring Valley.....	Fillmore	150 bu.	
C. L. Blanchar, Sherburn.....	Martin	75 bu.	Certified
G. E. Kittleson, Ceylon.....	Martin	200 bu.	
James Bjerk, Beaver Creek.....	Rock	25 bu.	

MINNESOTA NO. 23

L. J. Peterson, Aitkin.....	Aitkin	35 bu.	Certified
A. B. Coleman, Aitkin.....	Aitkin	75 bu.	Certified
J. H. Nixon, Nevis.....	Hubbard	5 bu.	
John F. Peterson, Wadena.....	Wadena-Todd	300 bu.	Certified

RUSTLER WHITE

J. A. Nelson, Maynard.....	Chippewa	10 bu.	Certified
Carey Bros., Rosemount.....	Dakota	20 bu.	Certified
C. F. Nelson, Randolph.....	Dakota	25 bu.	Certified
Arthur Seward, Rosemount.....	Dakota	25 bu.	Certified
John Rasmussen, Hartland.....	Freeborn	10 bu.	
L. E. McCoy, Tracy.....	Lyon	20 bu.	
I. J. Clinton, Watkins.....	Meeker	18 bu.	Certified
Ludlow Greenhouses, Worthington.....	Nobles	25 bu.	
Louis Johnson & Sons, Fergus Falls.....	Ottertail	100 bu.	Certified
A. A. Chapman, Olivia.....	Renville	200 bu.	Certified
H. C. Kusbe, Olivia.....	Renville	400 bu.	Certified
J. C. Bruer & Son, Redwood Falls.....	Redwood	50 bu.	

NORTHWESTERN DENT

Peter Peterson, Dassel.....	Meeker	350 bu.	Certified
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MISCELLANEOUS

E. J. Stennes, Montevideo.....	Chippewa	1 bu.	White Rice Pop Corn
B. G. Olson, Watson.....	Chippewa	15 bu.	Certified Golden Jewel
John Rasmussen, Hartland.....	Freeborn		Minn. No. 455
L. E. McCoy, Tracy.....	Lyon	30 bu.	Early White
Floyd E. Lindsley, Garvin.....	Murray	12 bu.	Jap. Rice Pop Corn
A. A. Chapman, Olivia.....	Renville	2000 bu.	Certified Early
			Crosby Minn. 287
J. Bjerk, Beaver Creek.....	Rock	25 bu.	Golden Jewel
B. A. Passe, Wabasha.....	Wabasha	3 bu.	(Passe Pride)

FLAX

NORTH DAKOTA NO. 52

Gustav Rasche, Westbrook.....	Cottonwood	60 bu.	Field Inspected
R. Telkamp, Montevideo.....	Chippewa	400 bu.	
Nils Skinnemoen, Wendell.....	Grant	50 bu.	Field Inspected
Chas. Wright Co., Fergus Falls.....	Ottertail	600 bu.	
L. I. Knight, University Farm, St. Paul.....		600 bu.	Grown at DuFrost, Canada

NORTH DAKOTA NO. 114

Tobias Peterson, Blue Earth.....	Faribault	600 bu.	Certified
H. N. Midtbo, Donnybrook, N. D.....		150 bu.	

MINNESOTA NO. 25

C. R. Billings, Audubon.....	Becker	100 bu.	Field Inspected
H. H. Kalmoe, Montevideo.....	Lac Qui Parle	40 bu.	Certified
John Utne, Dalton.....	Ottertail	100 bu.	
J. A. Willenbring, Richmond.....	Stearns	80 bu.	

MISCELLANEOUS

C. R. Billings, Audubon.....	Becker	100 bu.	Common
James White, Grand Island, Nebraska.....		85 bu.	
Geo. Brush, Owatonna.....	Steele	100 bu.	Russian
L. D. Harris, Simpson.....	Olmsted	100 bu.	

Name and Town	County	Amount for Sale	Remarks
OATS			

VICTORY—MINNESOTA NO. 514

Carl Olstad, Hanska	Brown	500 bu.	Registered
Stensrud Bros., Watson	Chippewa	2000 bu.	Registered
John W. Evans, Montevideo	Chippewa	200 bu.	Registered
L. O. Norman, Montevideo	Chippewa	600 bu.	Registered
I. J. Clinton, Watkins	Meeker	800 bu.	Certified
Wm. Kueker, Faribault	Rice	450 bu.	Registered
Alfred S. Merrill, 323 2d Ave. N., Minneapolis....		1200 bu.	Certified

MINOTA MINNESOTA No. 512

H. H. Kalmoe, Montevideo	Lac Qui Parle	650 bu.	Registered
I. J. Flaten, Bruno	Pine	50 bu.	

IMPROVED LIGOWA, MINN. NO. 281

C. F. Nelson, Randolph	Dakota	400 bu.	Certified
John Utne, Dalton	Ottertail	100 bu.	
Frank Moore, Underwood	Ottertail	300 bu.	
School Demonstration Farm, Little Swan	St. Louis	100 bu.	

EARLY GOTHLAND, MINNESOTA NO. 295

W. J. Brown, Mora	Kanabec		Field Inspected
Andrew Anderson, Fergus Falls	Ottertail	500 bu.	Field Inspected
Wm. Kueker, Faribault	Rice	560 bu.	Registered
Chas. Lien, St. Cloud	Stearns	200 bu.	

IOWA NO. 103

Andrew Anderson, Fergus Falls	Ottertail	200 bu.	
John D. Fenstermacher, Spring Valley	Fillmore		
Fred Schumacher, Spring Valley	Fillmore		

IOWA NO. 105

Carl Olstad, Hanska	Brown	300 bu.	Certified
A. A. Riedesel, Windom	Cottonwood	200 bu.	
H. P. Hanson, Albert Lea	Freeborn	200 bu.	Certified
Chas. F. Wolfe, Kellogg	Wabasha	250 bu.	Certified

KHERSON

Henry Meinhard, Sherburn	Martin	40 bu.	Registered
Underwood Farms, Lake City	Wabasha	150 bu.	Certified

WISCONSIN NO. 7

H. P. Hanson, Albert Lea	Freeborn	600 bu.	Certified
H. H. Kalmoe, Montevideo	Lac Qui Parle	360 bu.	Certified

MISCELLANEOUS

John A. Nelson, Maynard	Chippewa	200 bu.	Russian Green
H. P. Hanson, Albert Lea	Freeborn	300 bu.	Cert. Early Iowa
Anton Norum, Hallock	Kittson	760 bu.	Cert. Swedish Whitling
Arthur Norum, Hallock	Kittson	400 bu.	Swedish Whitling
P. M. Cameron, Hallock	Kittson	200 bu.	Cert. Swedish Whitling
Wm. J. Van Dyke, Bertha	Todd		Sixty-Day Oats

SOY BEANS

CHESTNUT NO. 110

Wm. Tanner, Cannon Falls	Goodhue	5 bu.	
Northrup, King & Co., Minneapolis	Hennepin	400 bu.	
H. H. Kalmoe, Montevideo	Lac Qui Parle	40 bu.	Registered

WISCONSIN BLACK

L. O. Jacob, Anoka	Anoka	10 bu.	Certified
Philip Nelson, Tracy	Lyon	75 bu.	
John F. Peterson, Wadena	Wadena	100 bu.	Certified

TIMOTHY

C. R. Billings, Audubon	Becker	200 bu.	Field Inspected
Carl Opsata, Bemidji	Beltrami	100 bu.	Field Inspected
Tobias Peterson, Blue Earth	Faribault	100 bu.	
J. H. Nixon, Nevis	Hubbard	7 bu.	
Roy Smith, Parkers Prairie	Ottertail	50 bu.	

Name and Town	County	Amount for Sale	Remarks
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POTATOES

F. H. Hilgers, Barnesville.....	Clay	600 bu.	Cert. Early Ohio
Stensrud Bros., Watson.....	Chippewa	50 bu.	Green Mountain
Roy Smith, Parkers Prairie.....	Ottetail	300 bu.	Cert. Green Mountain
A. G. Tolaas, Univ. Farm, St. Paul.....			List of certified potatoes

RYE

August Flies, Kellogg	Wabasha	50 bu.	Rosen
Underwood Farms, Lake City.....	Wabasha	100 bu.	Rosen Certified
Write for Fall Seed List—Ready about August 1st, every year.			

WHEAT

MARQUIS			
L. O. Jacob, Anoka.....	Anoka	100 bu.	Field Inspected
Smith Bros., Norwood	Carver		
Nils Skinnemoen, Wendell.....	Grant	200 bu.	Field Inspected
P. M. Cameron, Hallock.....	Kittson	300 bu.	Field Inspected
Alfred Carlson, Hallock.....	Kittson	150 bu.	Field Inspected
Anton Norum, Hallock	Kittson	150 bu.	
John Norberg, Dassel.....	Meeker	110 bu.	Field Inspected
J. Willenbring, Richmond.....	Stearns	125 bu.	
A. S. Merrill, 323 2d Ave. N., Minneapolis.....		1000 bu.	
(DURUM) MINDUM NO. 470			
A. P. Nelson, Maynard.....	Chippewa	60 bu.	Registered
Boraas Bros., Hallock	Kittson		
W. O. Williamson, Hallock.....	Kittson		
P. J. Olson, Grafton, North Dakota.....		500 bu.	
MISCELLANEOUS			
Harvey Visser, Forestburg, S. D.....		60 bu.	Prelude

SEEDS, MISCELLANEOUS

W. C. Hicks, Cedar	Anoka	60 bu.	Navy Beans
J. A. Willenbring, Richmond.....	Stearns	100 bu.	Robust
H. H. Kalmoe, Montevideo.....	Lac Qui Parle	200 bu.	Speltz
			Cert. Minn. No. 95
James Bjerk, Beaver Creek.....	Rock	130 bu.	Field Peas
Iver Barnaal, Sacred Heart.....	Renville	10 bu.	Hungarian Millet
George Brush, Owatonna	Steele	75 bu.	Navy Beans
W. B. Erickson, Hager City, Wisconsin.....		300 bu.	Buckwheat
			Early Amber Sorghum

COMMERCIAL LIST

We are pleased to include herewith the names of seed houses, commercial dealers and farmers who buy, grade and sell seeds of farm crops. No guarantee is implied or given by including the names herewith. Write for catalog if a complete list of varieties of all seeds is desired. There may be other firms in the state but attention has not been directed to M. I. C. A. concerning names and addresses.

W. H. Bofferding, Minneapolis, Minn.	Farmers' Seed & Nursery Co., Fairbault, Minn.
All farm seeds.	All farm seeds.
Albert Dickinson Co., Minneapolis Minn.	Minnesota Seed Co., New Ulm, Minn.
All staple farm seeds.	All farm seeds.
Northrup, King Co., Minneapolis, Minn.	Northfield Seed Co., Northfield, Minn.
All staple farm and garden seeds.	All farm seeds.
Minneapolis Seed Co., Minneapolis, Minn.	J. A. Salzer Co., La Crosse, Wis.
All farm seeds.	All staple farm seeds.
L. I. May Co., St. Paul, Minn.	J. W. Beckman, Cokato, Minn.
All farm seeds.	John Henderson, Cokato, Minn.
Renville County Pure Seed Co.	St. John-Bull Seed Co., Worthington, Minn.
Chapman & Schiebel, Olivia, Minn.	Clinton Falls Nursery Co., Owatonna, Minn.

Name and Town	County	Amount for Sale	Remarks
J. W. BECKMAN, Cokato, Wright County.			
Alfalfa (Montana)	80 bu.	Soybeans (Wis. Black).....	60 bu.
Alfalfa (Grimm)	35 bu.	Soybeans (Mammoth yellow)...	100 bu.
Clover (Alsike)	120 bu.	Sudan Grass	40 bu.
Clover (Mammoth)	30 bu.	Milletts	300 bu.
Alsike and Timothy mixture...	150 bu.	Sunflower Seed	10 bu.
Oats (Iowa 103)		Red Top Seed	30 bu.
Oats (Yellow Scotch).....	300 bu.	Potatoes (Carmon No. 3).....	300 bu.
Oats (Big 4).....	400 bu.		
All Farm Seeds. Write for Catalog.			

A. B. LYMAN, Excelsior, Minn., Carver County.
Original Grower.

Genuine Grimm Alfalfa. Write for Prices.

CLINTON FALLS NURSERY CO., Owatonna, Minn., Steele County.

Clover—(Medium Red).....	300 bu.
Timothy	100 bu.
Sugar Cane	400 bu.
Soybeans—(Wisconsin Black)	50 bu.
Soybeans—(Chestnut Minn. 110).....	60 bu.
Barley—(Oderbrucker)	500 bu.
Oats—(Kherson)	5000 bu.
Buckwheat—(Silverhull)	400 bu.
Corn—(Silver King)	300 bu.
Corn—(Cashman Yellow Dent)	600 bu.
Corn—(Minnesota No. 13).....	800 bu.
Corn—(Minnesota No. 23).....	200 bu.
Corn—(Northwestern Dent)	300 bu.
Corn—(Rustler White)	600 bu.
Flax—Russian)	200 bu.

All Farm Seeds. Write for Catalog.

ST. JOHN-BULL SEED CO., Worthington, Minn., Nobles County.

Corn—(Minnesota No. 455).....	50 bu.	Registered
Corn—(Minnesota No. 13).....	500 bu.	Registered
Corn—(Reeves Yellow Dent).....	100 bu.	Certified
Corn—(Northwestern Dent)	100 bu.	
Corn—(Rustler White)	100 bu.	Certified
Sweet Corn—(Crosby Minn. 287).....	25 bu.	Certified
Sweet Corn—(Country Gentleman).....	20 bu.	Certified
Oats—(Russian Green)	750 bu.	Certified

Also all farm seeds.

Soybeans—(Wisconsin Black)	
Soybeans—(Medium yellow)	
Buckwheat—(Silver hull and mixed).....	
Clover—(Medium Red)	
Clover—(White Sweet)	
Alfalfa—(Grimm and common).....	
Flax—(S. D. wilt resistant).....	
Corn—(Murdock)	
Corn—Silver King)	

All Farm Seeds. Write for Catalog.

E. C. DAVIS SEED CO., St. Peter, Minn., Nicollet County.

Clover—(Medium red and Alsike).....	
Alfalfa—(Grimm)	
Oats—(Iowa 103)	500 bu.
Oats—(Iowar)	300 bu.
Wheat—(Marquis)	
Corn—(Silver King)	300 bu.
Corn—(Golden Jewel)	250 bu.
Corn—(Early Murdock)	
Corn—(Imp. Minn. No. 13).....	100 bu.
Corn—(Minn. No. 13).....	200 bu.
Corn—Rustler White	
Soybeans—Wisconsin Early Black	
Soybeans—Ito San	

All Farm Seeds. Write for Catalog.

Name and Town	County	Amount for Sale	Remarks
FARIBAULT SEED & NURSERY CO., Faribault, Minn., Rice County.			
Barley—(Manchuria, Minn. 184).....	420 bu.	Registered	
Oats—(Victory No. 514).....	450 bu.	Registered	
Oats—(Early Gothland Minn. 295).....	560 bu.	Registered	
Corn—(Silver King)			
Corn—(Minn. No. 13).....			
Corn—(Golden Jewel)			
All Farm Seeds. Write for Catalog.			

CENTRAL EXPERIMENT STATION, University Farm, St. Paul.

WHEAT			
Marquis	175 bu.		\$2.50 bu.
Mindum Minn. No. 470 (Durum).....	75 bu.		\$2.50 bu.
BARLEY			
Minn. No. 184 (Manchuria Six Row)....	275 bu.		\$1.25 bu.
OATS			
Imp. Ligowa Minn. 281.....	125 bu.		\$1.00 bu.
Minota Minn. 512	150 bu.		\$1.00 bu.
Victory, Minn. 514	450 bu.		\$1.00 bu.
CANADA FIELD PEAS			
Minn. No. 95	20 bu.		\$4.00 bu.
SOYBEANS			
Minn. 110, Chestnut	20 bu.		\$5.00 bu.
Minn. 139, Minsoy	10 bu.		\$5.00 bu.
CORN			
Minn. No. 13 (Yellow Dent)	25 bu.		\$3.50 bu.
Rustler White	25 bu.		\$3.50 bu.
Sacks extra 65 cents each.			

SUB-STATIONS IN MINNESOTA

The Northwestern Experiment Station.			
Crookston	Polk County	R. R. Smith, Agronomist.	
West Central Experiment Station.			
Morris	Stevens County	R. O. Bridgeford, Agronomist.	
Barley—(Manchuria, Minn. 184)	450 bu.	Registered	
Corn—(Minn. No. 13)	100 bu.	Registered	
Oats—(Victory) Minn. No. 514.....	125 bu.	Registered	
Oats—(Minota, Minn. 512)	75 bu.	Registered	
Wheat—(Marquis)	175 bu.		
S. E. Experiment Station, Waseca, Waseca County			
Barley—(Minsturdi, Minn. 439).....	100 bu.	Registered	
Soybeans—(Chestnut 110)	35 bu.	Registered	
Soybeans—(Habaro)	15 bu.	Registered	
Canada Field Peas (Minn. No. 95).....	40 bu.	Registered	
N. E. Experiment Station, Duluth..St. Louis Co.			
Barley—(Manchuria No. 184)	25 bu.	Registered.	
Timothy	5 bu.	Registered.	
No. Central Experiment Station,			
Grand Rapids	Itasca County	O. I. Bergh, Supt.	
Corn—(Minnesota No. 13).....	20 bu.	Registered.	
Oats—(Victory No. 514)	60 bu.	Registered.	
Oats—(Imp. Ligowa, Minn. No. 281).....	350 bu.	Registered.	
Potatoes—(Green Mountain)	900 bu.	Certified.	
Potatoes—(Russett Burbanks)	331 bu.	Certified.	
Potatoes—(Early Ohio)	30 bu.		
Potatoes—(Irish Cobbler)	90 bu.		
Potatoes—(Rural New Yorker)	30 bu.		
Potatoes—(Bliss Triumph)	80 bu.		
Potatoes—(King)	25 bu.		
Wheat—(Prelude)	20 bu.		

METHODS OF DISTRIBUTING AND CERTIFYING SEED.

Each year the Central and Sub-stations grow increase plots of the recommended varieties. These plots are carefully rogued during the growing season. The crop is carefully harvested, threshed and cleaned, particular attention being paid to the elimination of mixtures. This improved seed is then sold to certain farmers who will further grow and increase it.

The Experiment Station co-operates with the Minnesota Crop Improvement Association in keeping a record of the recommended varieties after they have been distributed to the farmers. A farmer obtaining seed which is being increased from any of the stations may apply through the Association for a field and bin inspection of his field and threshed grain respectively. If the field is in such condition that the inspector thinks the crop will produce good, unmixed seed, and if the variety is relatively free from noxious weeds and diseases, the inspector reports favorably. Another inspection is made of the seed after it is cleaned and ready for use or sale by the farmer. If it then comes up to the standard qualifications for good, pure seed as set by this Association, a certificate of inspection is issued to the grower and a record is made of the seed. The grower is required to report to whom his seed is sold so that a complete history can be kept.

A crop produced from seed which was obtained from the station increase fields is recorded as second generation seed. Seed can be **registered** for two generations after being obtained from a Station. It may be registered after that only if the grower maintains a special seed plot from which he makes a head selection, or if he obtains new stock from the Experiment Station. Seed from a farmer's seed plot can be registered for three generations providing that it passes the inspection. A grower may have his seed recorded with the Association after the third year as certified seed if he does not care to maintain a seed plot. **Any variety** may qualify as **certified** seed providing it meets certain standard of purity, freedom from disease and obnoxious weeds.

The method of inspecting and certifying may be summarized as follows:

1. The grower wanting to have his crop inspected writes to the Secretary of the Minnesota Crop Improvement Association, University Farm, for an application blank.
2. The application blank is filled out by the grower and sent to the secretary. The application contains information as to crop, variety, number of acres, and where seed was obtained. It must be accompanied by a fee of \$3.00. One dollar of this is for membership in the Association and \$2.00, is the initial field inspection fee.
3. The secretary makes arrangements to have an inspector visit the farm sometime before harvest to make the field inspection.
4. The inspector makes a report on the condition of the crop, its purity, freedom from weeds and diseases, and general condition of the farm. If everything is found satisfactory, a final bin inspection is recommended, otherwise the field is rejected for registered or certified seed.
5. After threshing, the grower sends in an application for bin inspection. This must be accompanied by a half-pint sample of grain cleaned as he expects to have it for sale, and a final inspection fee of \$2.00. A laboratory test is made as to purity and germination. If the sample is found satisfactory, arrangements are made to inspect the seed in the bin. If this is found equal to the sample submitted and up to all requirements, the inspector recommends that a certificate be issued

for the seed. The inspector takes a 2-quart sample of grain, 5 ears of corn, or 1 quart of grass seed to keep on file at the office.

6. The Association sends the grower a certificate showing that his seed has been inspected both in the field and the bin and is classified as either registered or certified seed. Tags are also provided to be used by the grower as his guarantee to the buyer of the seed.

7. The grower is furnished with cards for reporting sales of his seed so that a record can be kept of the same after it leaves his hands.

8. The Association publishes an annual seed list of both fall and spring sown crops where all registered and certified seeds are given a special notice. These seed lists are given a wide distribution throughout this state and adjoining states.

No definite price is fixed by the Association for the various classes of seeds. This is left to the individual. Usually enough is secured to well repay the grower for his extra work.

SHIPPING TAGS.

Sent with Certificate of Inspection.



The tag features a large outline of the state of Minnesota. Inside the outline, there are several small illustrations: a farm with a barn, a field of corn, a person plowing, and a person harvesting. To the right of the state outline, the text reads: "MINNESOTA IN U.S. CORN BELT. EVERY COUNTY GROWING CORN." Below the state outline, the text reads: "MINNESOTA Crop Improvement Association". Below this, there is a section for "Ship to" with a blank line. Below that, there is a section for "This shipment contains" with a blank line, followed by "Seed". Below this, there is a table with columns for "Variety Name", "% Purity", "% Germ.", and "Tested". The "Tested" column is further divided into "Month" and "Year". The "Year" column has the number "19" written in it. Below the table, there is a section for "Grown by:" with a blank line. Below that, there is a section for "P. O." with a blank line, followed by "Co." with a blank line.

MINNESOTA
Crop Improvement Association

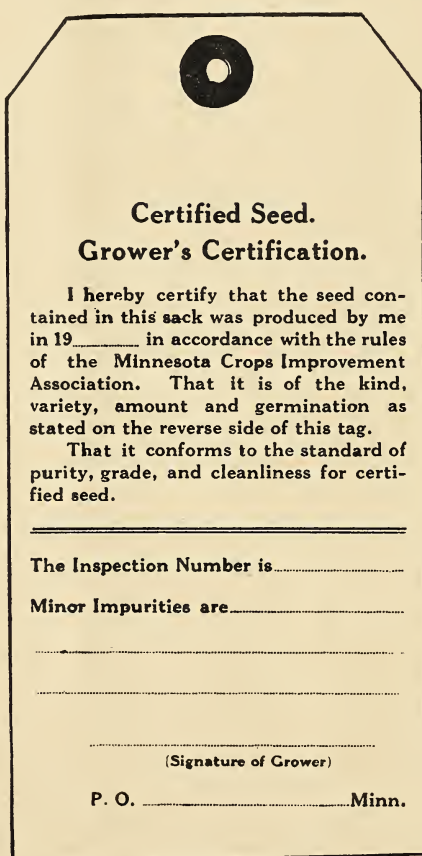
Ship to _____

This shipment contains _____ Seed

Variety Name	% Purity	% Germ.	Tested	
			Month	Year
				19

Grown by: _____

P. O. _____ Co. _____



The tag is a simple rectangular shape with a hole at the top. It contains the following text: "Certified Seed. Grower's Certification." Below this, there is a paragraph: "I hereby certify that the seed contained in this sack was produced by me in 19 _____ in accordance with the rules of the Minnesota Crops Improvement Association. That it is of the kind, variety, amount and germination as stated on the reverse side of this tag. That it conforms to the standard of purity, grade, and cleanliness for certified seed." Below this paragraph, there is a section for "The Inspection Number is" with a blank line. Below that, there is a section for "Minor Impurities are" with a blank line. Below that, there is a section for "(Signature of Grower)" with a blank line. Below that, there is a section for "P. O." with a blank line, followed by "Minn." with a blank line.

**Certified Seed.
Grower's Certification.**

I hereby certify that the seed contained in this sack was produced by me in 19 _____ in accordance with the rules of the Minnesota Crops Improvement Association. That it is of the kind, variety, amount and germination as stated on the reverse side of this tag. That it conforms to the standard of purity, grade, and cleanliness for certified seed.

The Inspection Number is _____

Minor Impurities are _____

(Signature of Grower)

P. O. _____ Minn. _____

(Reverse side.)

FORMS USED FOR SEED INSPECTION.

Application Blank.

Tear this out and send in if you want some crop inspected.

MINNESOTA CROP IMPROVEMENT ASSOCIATION

Application for Inspection

Name of applicant..... Address..... County.....
 Township..... Section No..... Distance and direction from town: North.....
 East..... South..... West.....
 Date..... Telephone No..... Railroads.....
 Remarks.....

VARIETY	No. of Acres (if field inspection)	No. of Bus. (if bin inspection)	Name and Address of Grower of Seed. (Where was your seed obtained?)	Inspection Fee.		Member-ship Fee (if not already a member)
				Field	Bin	
1
2
3
4
5
6
			Totals

Make check, money order, etc., payable to Minnesota Crop Improvement Association. Send to Secretary, M. C. I. A., University Farm, St. Paul, Minn.

Total of check or draft enclosed \$

CERTIFICATE OF INSPECTION.

Issued when seed meets requirements.

Minnesota Crop Improvement Association

CERTIFICATE OF INSPECTION

Grower's No.-----

Application No. -----

Certificate No.-----

Kind of seed

Variety name

Quantity Inspected

This is to certify that the above mentioned kind, variety, and quantity of seed produced by

Mr. -----

Name

P. O.

County

Minnesota,

was inspected by an authorized representative of the Minnesota Crop Improvement Association and is recorded as **Certified Seed** in accordance with the rules of the Association, which require high standards of grade, purity, cleanliness, and vitality.

In testimony whereof, the duly authorized officer of the Association hereunto subscribes his name and has caused the seal of the Association to be hereto affixed.

(SEAL)

Minnesota Crop Improvement Association

Secretary

----- day of ----- A. D. 19--

